

Satellite A70 Series

Model Name	Description	Part Number	UPC Code
Satellite A70-S249	Intel® Pentium® 4 Processor 532, 15.4" WXGA, 256MB, 60GB (4200 RPM), DVD/CD-RW, 802.11g, TV-Out, CD play/Instant play button, Microsoft® Windows® XP Pro, 1-year Limited Warranty	PSA70U-00L00F	032017268081
Satellite A70-S2491	Intel® Pentium® 4 Processor 532, 15.4" WXGA, 256MB, 60GB (4200 RPM), DVD/CD-RW, 802.11g, TV-Out, CD play/Instant play button, Microsoft® Windows® XP Home, 1-year Limited Warranty	PSA70U-00L00T	032017268098
Satellite A70-S259	Intel® Pentium® 4 Processor 538, 15.4" WXGA, 512MB, 60GB (4200 RPM), DVD/CD-RW, 802.11g, TV-Out/1394/PTR/FIR, CD play/Instant play button, Microsoft® Windows® XP Pro, 1-year Limited Warranty	PSA70U-09G00X	032017271364
Satellite A70-S2591	Intel® Pentium® 4 Processor 538, 15.4" WXGA, 512MB, 60GB (4200 RPM), DVD/CD-RW, 802.11g, TV-Out/1394/PTR/FIR, CD play/Instant play button, Microsoft® Windows® XP Home, 1-year Limited Warranty	PSA70U-09G00T	032017271371

System Characteristics¹

Operating System

- Microsoft® Windows® XP Professional
- Microsoft® Windows® XP Home

Processor² and Chipset

- Choice of processors:
 - Mobile Intel® Pentium® 4 Processor 532 supporting HT Technology [3.06GHz, 1MB L2 cache, 533MHz Front Side Bus ("FSB")],
 - Mobile Intel® Pentium® 4 Processor 538 supporting HT Technology [3.20GHz, 1MB L2 cache, 533MHz Front Side Bus ("FSB")],
- ATI MOBILITY™ RADEON™ 9000 IGP

Memory

- 512MB (Min)/1536MB (Max) (512MB on-board model). PC2700 DDR333 SDRAM 2.5V SODIMM Memory modules; configurable from 512MB to 1536MB

Mass Storage³

Choice of Hard Disk Drives:

- 80GB (4200RPM) or 60GB (4200 RPM), Enhanced IDE (ATA-6) hard disk drive; 9.5mm height; user removable

Choice of Optical Disk Drives:

- **Fixed Bay DVD-ROM/CD-RW**, 5.25" EIDE, 12.7mm height. Compatibility: CD-ROM (read), CD-R (read), CD-RW (read/write), DVD-ROM (read), DVD-R (read), DVD-RW (read), DVD-RAM (read).
- **Fixed Bay DVD Super Multi Drive**, 5.25" EIDE, 12.7mm height. Capability: CD-ROM (read), CD-R (read/write), CD-RW (read/write), DVD-ROM (read), DVD-R (read/write), DVD-RW (read/write), DVD+R (read/write), DVD+RW (read/write), DVD-RAM (read/write)

Optional Floppy Disk Drive

- External USB Floppy Drive, 3.5", 1.44MB

Display⁴

- 15.4" diagonal WXGA TFT active-matrix TruBrite™ LCD; internal display supports up to 16M colors at 1280 x 800 (WXGA), High-Brightness CSV
- Maximum brightness 232 Cd/m²
- Brightness Control

Graphics

- ATI MOBILITY™ RADEON™ 9000 IGP (integrated video); 64MB of shared memory, user adjustable to 128MB

Input Devices

- Keyboard: Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® & Application keys support; HotKey function
- Mouse: Touch Pad

Expandability

- 2 Expansion memory slots
- 1 PC Card slots support 1 Type II, PCMCIA R2.01, PC Card16, CardBus

Communications⁵

- Integrated V.92 modem

- Integrated 10/100Base-TX
- Integrated Wi-Fi compliant 802.11g Atheros wireless LAN

Ports

Standard

- RGB (monitor) port
- TV-Out port (S-video)
- 3 Universal Serial Bus (USB) port (v2.0)
- External Microphone jack
- Headphone jack
- RJ-45 LAN port
- RJ-11 modem port

Configured (Only available on certain models)

- Parallel port
- CD play/Instant play button
- IEEE 1394
- Infrared port
- 5-in-1 Multimedia port (SD, Memory Stick, MMC, xD-picture Card, Memory Stick Pro)

Physical Description

- Dimensions (WxDxH Front/H Rear): 14.4" x 10.8" x 1.54"/1.81"
- Weight⁶: Starting at 7.97lbs depending upon configuration
- LED Indicators: DC-In, Power, Primary Battery, Hard Drive, CD-DVD ROM Access, Wireless indicator, Caps Lock, Arrow Lock, Numeric Lock, Main Battery Charging Status, Sleep Suspend Mode, SD Card, Multiple Digital Media Card

Sound

- Realtek ALC259 Software Sound
- 16-bit stereo; Built-in stereo speakers, Built-in microphone
- 3D Sound Support, Direct 3D Sound; DirectSound, Direct Music, MIDI (playback) Support
- Sound Volume Control Dial

Power Supply

- 120W (19V 6.3A) Auto-sensing external AC Adapter, 100-240V / 50-60Hz input.

Battery⁷

- 12-cell (6450mAh), rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Battery Life (Normal Mode): Up to 2 hours (12-cell battery) (measured by Winstone™)

Security

- Slot for cable lock; HDD, memory (by screw only); User Power-on password, Supervisor Password (Set-up Security), Screen Blank (by HotKey), Screen Saver (by software).

BIOS

- ACPI v1.0b, PNP v1.0a, VESA v2.0, DPMS, DDC, SM BIOS v2.1, PC BIOS v2.2 support

Software

Toshiba Software and Utilities

- Toshiba Notebook Maximizer
- Toshiba Speech System
- Toshiba ConfigFree™
- Toshiba Custom Utilities
- Toshiba Touch and Launch
- TOSHIBA MyConnect™ - 45 day free trial offer

MYCONNECT OFFER DETAILS: 1 Valid in the US only! You must cancel your Access

TOSHIBA

Plan before the end of the trial period to avoid being charged the \$39.95 monthly Access Service fee for the six month plan commitment period. Monthly automatic renewal feature after end of commitment period. Available to new members in the U.S., age 18 or older, and a major credit card for billing is required. Offer is for unlimited dial-up, wired broadband, or Wi-Fi remote access connection time in the 50 United States and the District of Columbia within the MyConnect service area for 30 day continuous service periods. Use of optional 800 telephone number dial-up usage will incur additional fees even during the trial period. Other terms and conditions apply. Offer expires December 31, 2004. Information, prices, and availability subject to change without notice.

Third-party Software

- Microsoft® Works
- Microsoft® Office OneNote™ 2003
- Software Decoder: InterVideo® (Win-DVD™ 5) -w/SRS TruSurround XT® Technology (SRS TruSurround XT® Technology features: TruSurround, SRS Dialog Clarity Enhancement, & TruBass)
- Sonic® Solutions Drive Letter Access (DLA)
- Sonic® Solutions RecordNow!™ Basic
- ArcSoft Trial Version
- Intuit® Quicken® New User Edition 2004
- Norton AntiVirus™ 2004 – w/3-Month Subscription
- AOL® (3 –Month offer)
AOL OFFER DETAILS: Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AK, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required.
- Adobe® Acrobat Reader
- AT&T® Worldnet® Service – 1 Month FREE
Telephone access and other charges and other terms and conditions may apply. Offer available to new customers only.
- QuickTime™ Player
- RealOne™ Player 8 Basic
- Microsoft® Internet Explorer
- Napster™ online digital music service (30-day trial)

Environmental Specifications

	Operating	Non-Operating
Temperature	5° to 35°C (41° to 95°F)	-20° to 65°C (-4° to 149°F)
Thermal Gradient	15°C per hour maximum	20°C per hour maximum
Relative Humidity	20% to 80%	10% to 95%
Altitude (relative to sea level)	-60 to 3000 meters	-60 to 10,000 meters
Shock	7G	60G
Vibration	0.2G	1.0G

Limited Warranty

- 1 year parts, labor, and battery

Extended Warranty

Toshiba offers many different warranty extensions and enhanced service plans such as SystemGuard®, At-Home Repair, and Service Express to provide additional support to your notebook PC. For a full description and complete list of programs, please visit www.accessories.toshiba.com

Models with 1 Year Standard Limited Warranty

• 2nd/3rd Year Warranty Extension	SWP-PEQQ3V
• 3 Year SystemGuard + Warranty Extension	SWP-PEGQ3V
• 3 Year ServiceExpress + Warranty Extension	SWP-PEQP3V
• 3 Year At-Home Repair + Warranty Extension	SWP-PEQH3V
• 3 Year SystemGuard + Service Express	SWP-PEGP3V
• 3 Year SystemGuard + At-Home Repair	SWP-PEGH3V

Accessories

For additional and most updated accessories, please visit www.accessories.toshiba.com.

Memory

KTT3311/512	Kingston PC2100/PC2700, 512MB DDR
KTT3311/1G	Kingston PC2100/PC2700, 1GB DDR

SD Memory Cards (Only on selected models with 5-in-1 slot)

SD-M2564B3	Toshiba 256MB SD (Secure Digital)
SD-M5124B3	Toshiba 512MB SD (Secure Digital)
PA3370U-1BTM	Toshiba Bluetooth SD Card III

Power

PA3290U-2ACA	Toshiba 120W Global AC Adapter
PA3383U-1BRS	Toshiba Primary Li Ion Battery (12 cell)

Cases-Security

PA1360U-1NCS	Toshiba Nylon Case (15.4")
PA1361U-1NCS	Toshiba Executive Leather Case (15.4")
PA1362U-1NCS	Toshiba BackPack (15.4")
NWDEFCL	Targus-Noteworthy DEFCON CL Cable Lock

Input Devices

PA1336U-1NKB	Toshiba USB Keyboard
PA1337U-1NMS	Toshiba USB Optical Scroller Mouse
PA1367U-1NMS	Toshiba USB Ultra-Mini Retractable Scroller Mouse
PA1368U-1NHB	Toshiba USB 2.0 mini 4-Port Hub (w/AC adapter)

Storage & Back-up

HDD1232CZP41002	Toshiba 5GB Type II PC Card HDD w/Back-up software
PA3109U-1FDD	Toshiba USB Floppy Disk Drive Kit
UABS2-60.0	CMS ABSplus 60GB USB 2.0 Auto Backup Syst
UABS2-80.0	CMS ABSplus 80GB USB 2.0 Auto Backup Syst

Other

PA1370U-1ETC	Toshiba Keyboard Protector (Tecra/Satellite/Qosmio)
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Business Winstone® 2002 BatteryMark™ Version 1.0

These models achieved the battery life times shown using Ziff Davis Media Inc.'s Business Winstone® 2002 BatteryMark™ Version 1.0. These tests were performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest"). Neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to the results of the tests. Winstone® is a registered trademark and BatteryMark™ is a trademark of Ziff Davis Publishing Holdings Inc. in the U.S. and other countries. Copyright 2002 Ziff Davis Media Inc. All Rights Reserved. All products used in the tests were shipping versions available to the general public. The battery life results were achieved running the Business Winstone® 2002 BatteryMark™ Version 1.0 on the following system parameters. System parameters were set according to Ziff Davis Media Inc.'s recommendations.

Battery Life	Catalog Spec (1st)	2H	2H
	(1st+2nd)		
	Number of Conditioning Phase	1	1
	Life Test Run	3	3

A	CPU Name		Mobile Intel® Pentium® 4 processor 518 with HT Technology	Mobile Intel® Pentium® 4 processor 538 with HT Technology
	Processor info	speed	2.8GHz	3.2GHz
		number of processors	1	1
	amount of RAM		512MB	512MB
	Amount of secondary RAM cache		1MB	1MB

B	Battery	type(1st)	Li-Ion	Li-Ion
		model number(1st)	PA3383U-1BRS/BAS	PA3383U-1BRS/BAS
		type(2nd)	-	-
			-	-
		model number(2nd)	-	-
		number of batteries	1	1

C	Graphics		ATI RC300ML (internal GFX)	ATI RC300ML (internal GFX)
	amount and type of RAM		UMA	UMA
	graphics driver name and version		V8.01	V8.01
	graphics resolution and color depth, refresh rate		1280x800, 32bit, 60Hz	1280x800, 32bit, 60Hz

D	hard disk capacity		60G (4200rpm)	80G (4200rpm)
	hard disk file system & transfer mode		Enhanced IDE(ATA-6)	Enhanced IDE(ATA-6)
	hard disk controller model		ATI IXP150	ATI IXP150
	size of hardware cache if any		-	-

E	operating system version, service pack		Windows XP Professional Service Pack 1	Windows XP Professional Service Pack 1
	other special conditions		N/A	N/A

F	BIOS version		1.00	1.00
	Power management setting		see another sheet	see another sheet

			Business Winstone 2002 BatteryMark Version 1.0
			Model#1-2
Power Save Mode	Cooling Method		MaximumPerformance
	Intel SpeedStep(R) Technology		-
	Processor speed	100%-75%	Low
		74%-50%	Low
		49%-25%	Low
		24%-0%	Low
	Monitor brightness (* See Notes)	100%-75%	Mid2
		74%-50%	Mid2
		49%-25%	Mid2
		24%-0%	Mid2
	Turn off monitor	100%-75%	NEVER
		74%-50%	NEVER
		49%-25%	NEVER
		24%-0%	NEVER
	Turn off hard disks	100%-75%	3min
		74%-50%	3min
		49%-25%	3min
		24%-0%	3min
	System standby	100%-75%	NEVER
		74%-50%	NEVER
		49%-25%	NEVER
		24%-0%	NEVER
	System Hibernate	100%-75%	NEVER
		74%-50%	NEVER
		49%-25%	NEVER
		24%-0%	NEVER
System Power Mode	When I press the power button		Power off
	When I close the lid		Hibernate
	Prompt for password when computer goes off Standby or Hibernation		Off
Alarm	Activate low battery alarm when power level reaches		Off
	Low Battrey Alarm Action	Sound alarm	Off
		Display message	Off
		When the alarm goes off,the computer will:	Off
		When the alarm occurs, run this program:	Off
	Activate critical battery alarm when power level reaches		Off
	Critical Battrey Alarm Action	Sound alarm	Off
		Display message	Off
		When the alarm goes off,the computer will:	Off
		When the alarm occurs, run this program:	Off
Hibernate	Enable Hibernate Support		On
SoundMAX Audio Power Management	Power Mode		-
	Timer Setting	Instant Power Save	-
		Power Save Delay	-
	Internal Speakers	Power Down	-

Return Policy

TAIS does not accept the return of component parts, or bundled software, which have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

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¹ Subject to Change; Product Series Disclaimer.

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² Central Processing Unit ("CPU") Performance Disclaimer.

CPU performance in your computer product may vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia games or videos with special effects
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86° F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please refer to your Resource Guide or visit the Toshiba website at www.pcsupport.toshiba.com for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.

³ Hard Drive Capacity Disclaimer.

1 Gigabyte (GB) means $1000 \times 1000 \times 1000 = 1,000,000,000$ bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of $1 \text{ GB} = 1024 \times 1024 \times 1024 = 1,073,741,824$ bytes, and therefore may show less storage capacity. Available storage capacity will also be less if the product includes pre-installed operating system and/or application software. Actual formatted capacity may vary.

⁴ TFT Disclaimer.

Small bright dots may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the LCD Screen will deteriorate. This is an intrinsic characteristic of LCD technology. Screen will dim when the computer is operated on battery power and you may not be able to increase the brightness of the screen.

⁵ FCC Modem Speed Disclaimer.

Due to FCC limitations, speeds of 53 kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.

Wireless or Connectivity Claims.

Wireless connectivity is subject to availability of access points. You might have to purchase additional software, hardware and/or services or pay for phone charges and air time, etc. to achieve the functionality as advertised.

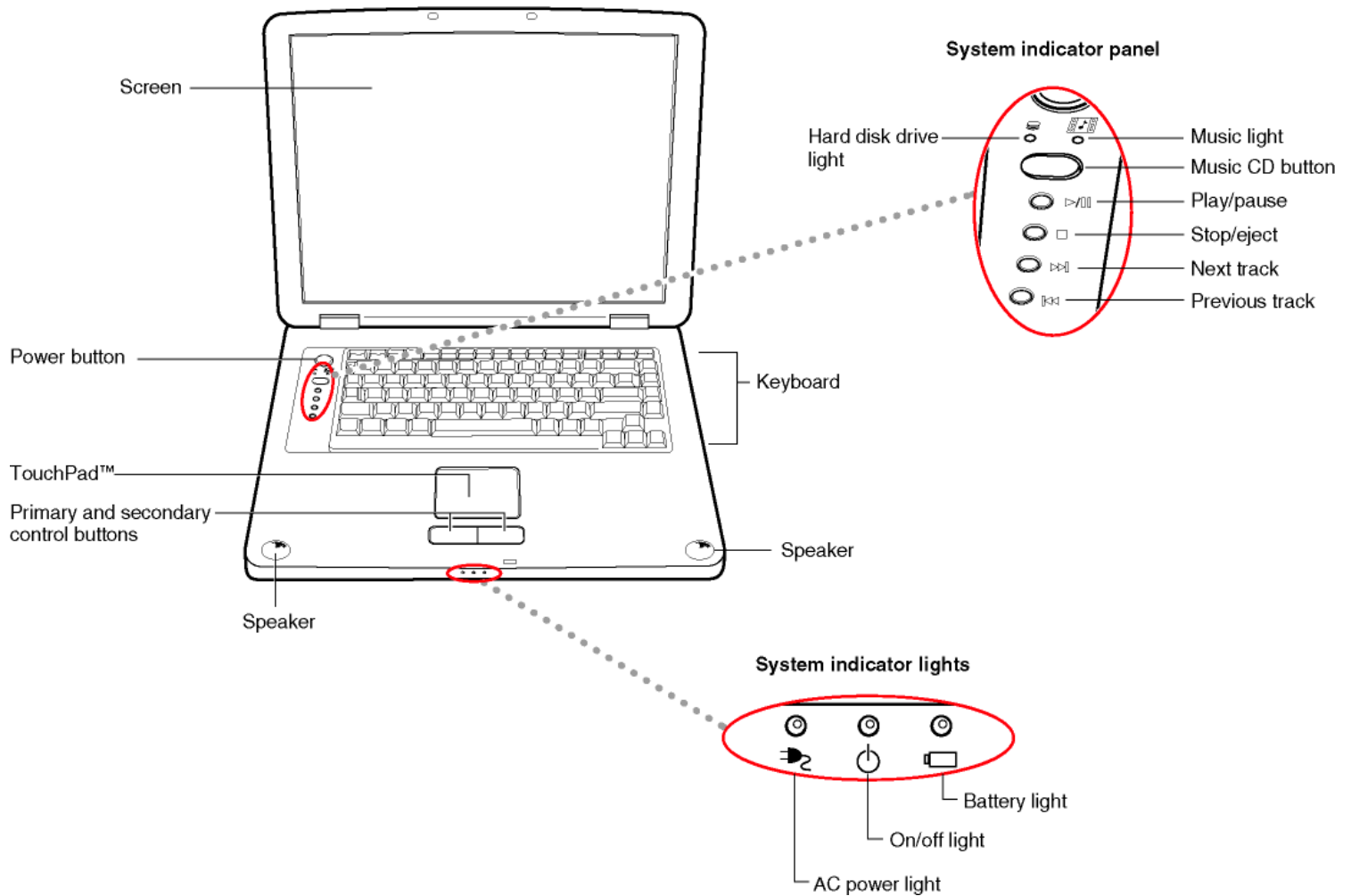
⁶ Weight Disclaimer

Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

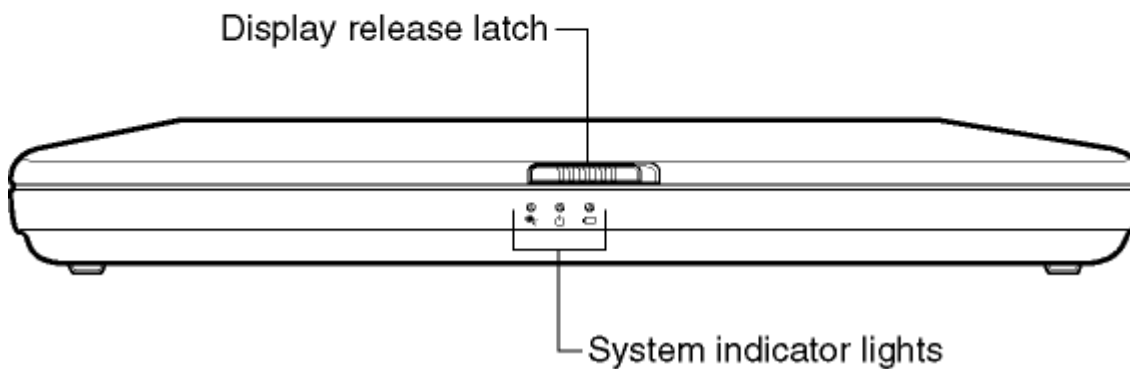
⁷ General Battery Life Disclaimer or Business Winstone® 2002 BatteryMark™ Version 1.0 Battery Life Data Disclaimer

Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see the accessories information that shipped with your computer or visit the Toshiba web site at accessoryfinder.toshiba.com.

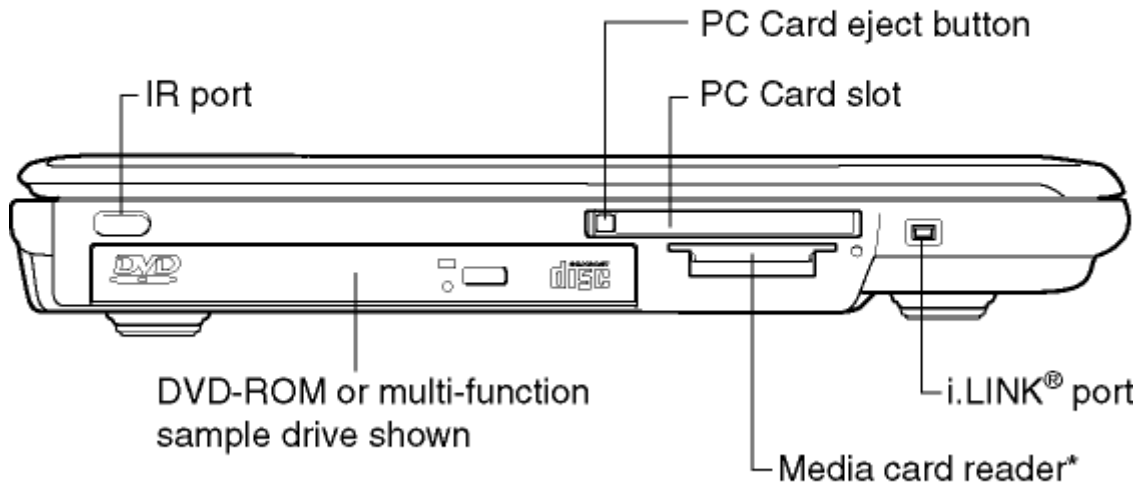
Front with display open



Front with display closed

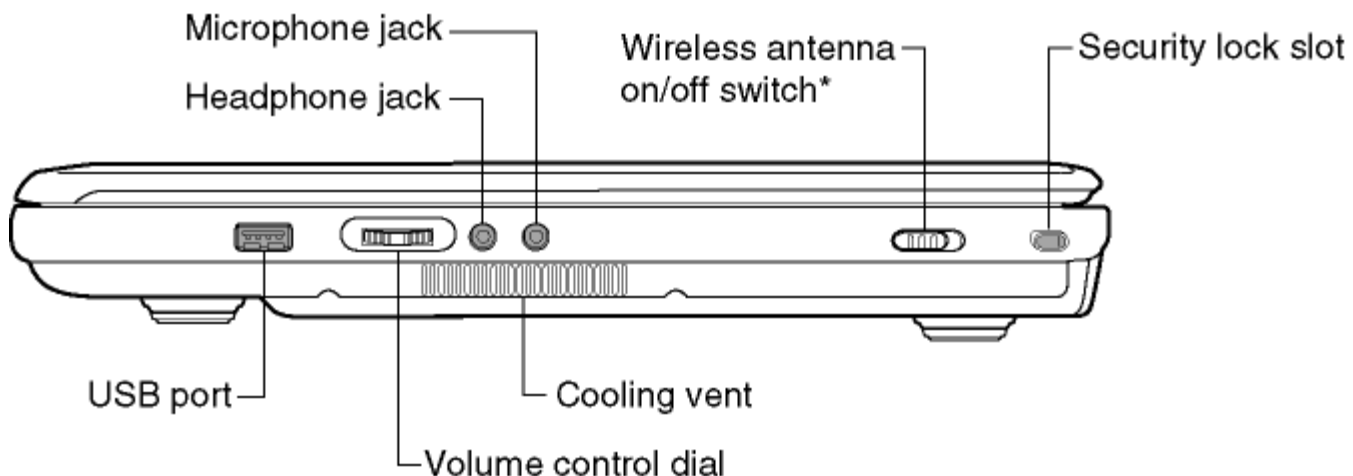


Left side



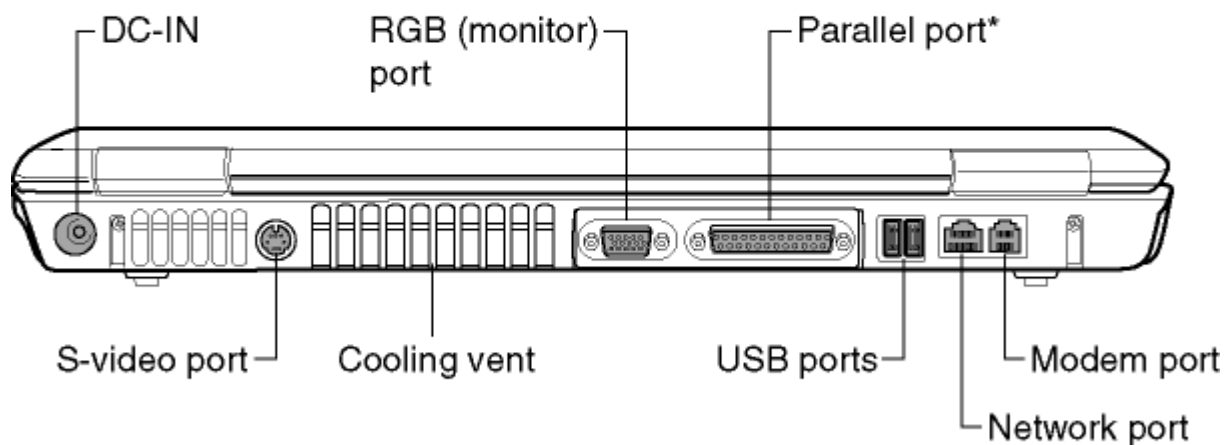
*Only on selected models.

Right side



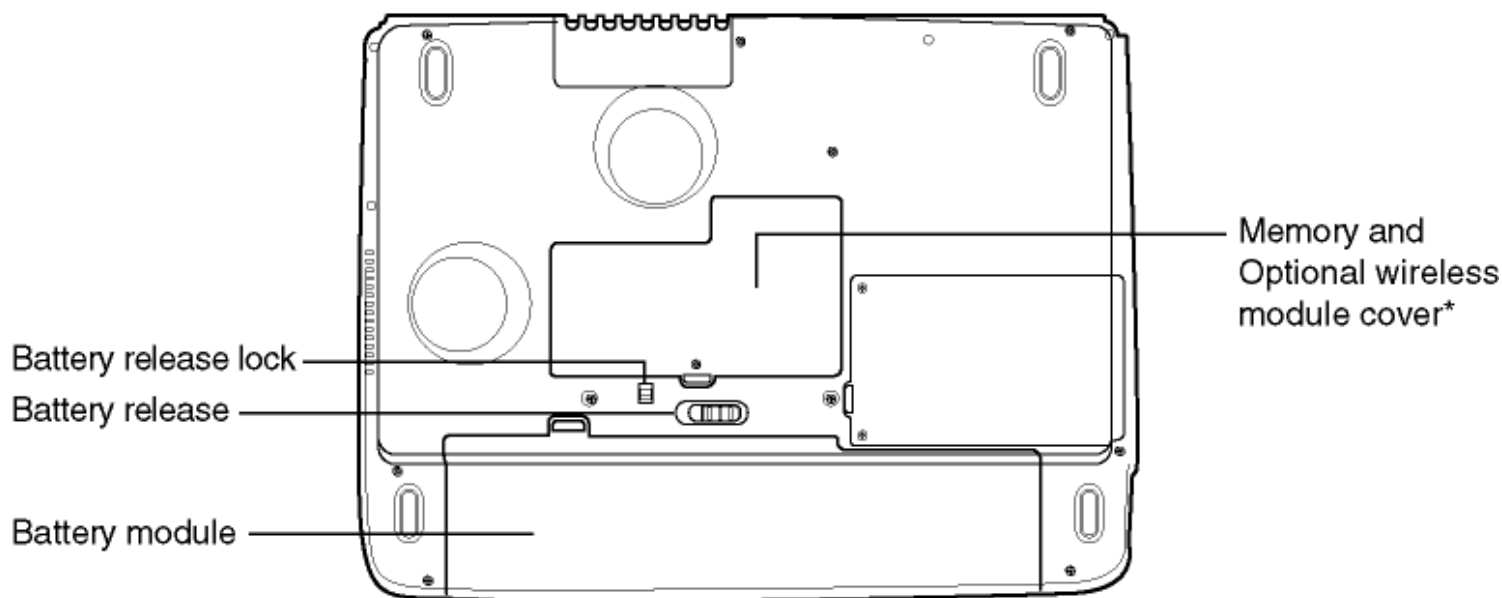
*Functional only on systems with wireless module installed.

Back



*Only on selected models.

Underside



*Functional only on systems with wireless module installed.